



July 24, 2008

Charles L.A. Terreni
Chief Clerk and Administrator
South Carolina Public Service Commission
Post Office Drawer 11649
Columbia, South Carolina 29211

Re: Carolina Power & Light Company d/b/a Progress Energy Carolinas, Inc.
Power Plant Performance Report (June 2008)
Docket No. 2006-224-E

Dear Mr. Terreni:

Enclosed is the Power Plant Performance Report for Carolina Power & Light Company d/b/a Progress Energy Carolinas, Inc. for the month of June 2008.

Sincerely,

Len S. Anthony (by dhs)
Len S. Anthony, General Counsel
Progress Energy Carolinas, Inc.

LSA/dhs
Enclosures
45612

c: John Flitter (ORS)

June 2008

The following units had no off-line outages during the month of June:

Brunswick Unit 1
Brunswick Unit 2
Harris Unit 1
Robinson Unit 2
Mayo Unit 1
Roxboro Unit 3
Roxboro Unit 4

Roxboro Unit 2

Full Forced Outage

- A. Duration: The unit was taken out of service at 1:12 on June 26, and returned to service at 23:38 on June 27, a duration of 46 hours and 26 minutes.
- B. Cause: Boiler Tube Leak
- C. Explanation: The unit was taken out of service to investigate and repair a tube leak in the superheater section of the boiler.
- D. Corrective Action: Weld repairs were made, and the unit was returned to service.

Full Forced Outage

- A. Duration: The unit was taken out of service at 13:01 on June 30, and remained offline for the remainder of the month. The unit was offline for a duration of 10 hours and 59 minutes during June.
- B. Cause: Boiler Tube Leak
- C. Explanation: The unit was taken out of service to investigate and repair and tube leak in the superheater section of the boiler.
- D. Corrective Action: Maintenance activities to correct the boiler tube leak were in progress at the end of the month.

	Month of June 2008		Twelve Month Summary		See Notes*
MDC	938	MW	938	MW	1
Period Hours	720	HOURS	8,784	HOURS	
Net Generation	686,283	MWH	6,899,569	MWH	2
Capacity Factor	101.62	%	83.74	%	
Equivalent Availability	100.00	%	82.57	%	
Output Factor	101.62	%	100.17	%	
Heat Rate	10,460	BTU/KWH	10,398	BTU/KWH	
	<u>MWH</u>	<u>% of Possible</u>	<u>MWH</u>	<u>% of Possible</u>	
Full Scheduled	0	0.00	1,351,299	16.40	3
Partial Scheduled	0	0.00	71,572	0.87	4
Full Forced	0	0.00	0	0.00	5
Partial Forced	0	0.00	43,025	0.52	6
Economic Dispatch	0	0.00	31	0.00	7
Possible MWH	675,360		8,239,392		8

* See 'Notes for Nuclear Units' filed with the January 2008 report.

** Gross of Power Agency

	Month of June 2008		Twelve Month Summary		See Notes*
MDC	937	MW	937	MW	1
Period Hours	720	HOURS	8,784	HOURS	
Net Generation	662,438	MWH	8,179,959	MWH	2
Capacity Factor	98.19	%	99.38	%	
Equivalent Availability	99.12	%	98.61	%	
Output Factor	98.19	%	99.87	%	
Heat Rate	10,741	BTU/KWH	10,564	BTU/KWH	
	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	0	0.00	3
Partial Scheduled	5,942	0.88	47,265	0.57	4
Full Forced	0	0.00	40,135	0.49	5
Partial Forced	6,260	0.93	34,518	0.42	6
Economic Dispatch	0	0.00	0	0.00	7
Possible MWH	674,640		8,230,608		8

* See 'Notes for Nuclear Units' filed with the January 2008 report.

** Gross of Power Agency

	Month of June 2008		Twelve Month Summary		See Notes*
MDC	900 MW		900 MW		1
Period Hours	720 HOURS		8,784 HOURS		
Net Generation	648,293 MWH		7,422,134 MWH		2
Capacity Factor	100.05 %		93.88 %		
Equivalent Availability	100.00 %		92.95 %		
Output Factor	100.05 %		100.56 %		
Heat Rate	10,990 BTU/KWH		10,846 BTU/KWH		
	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	523,410	6.62	3
Partial Scheduled	0	0.00	8,585	0.11	4
Full Forced	0	0.00	1,320	0.02	5
Partial Forced	0	0.00	66,157	0.84	6
Economic Dispatch	0	0.00	0	0.00	7
Possible MWH	648,000		7,905,600		8

* See 'Notes for Nuclear Units' filed with the January 2008 report.

** Gross of Power Agency

	Month of June 2008		Twelve Month Summary		See Notes*
MDC	710	MW	710	MW	1
Period Hours	720	HOURS	8,784	HOURS	
Net Generation	524,773	MWH	6,510,879	MWH	2
Capacity Factor	102.66	%	104.40	%	
Equivalent Availability	100.00	%	99.62	%	
Output Factor	102.66	%	104.40	%	
Heat Rate	10,937	BTU/KWH	10,721	BTU/KWH	
	<u>MWH</u>	<u>% of Possible</u>	<u>MWH</u>	<u>% of Possible</u>	
Full Scheduled	0	0.00	0	0.00	3
Partial Scheduled	0	0.00	9,851	0.16	4
Full Forced	0	0.00	0	0.00	5
Partial Forced	0	0.00	14,118	0.23	6
Economic Dispatch	0	0.00	0	0.00	7
Possible MWH	511,200		6,236,640		8

* See 'Notes for Nuclear Units' filed with the January 2008 report.

	Month of June 2008		Twelve Month Summary		See Notes*
MDC	742	MW	742	MW	1
Period Hours	720	HOURS	8,784	HOURS	
Net Generation	384,864	MWH	4,505,832	MWH	2
Capacity Factor	72.04	%	69.13	%	
Equivalent Availability	97.51	%	96.13	%	
Output Factor	72.04	%	70.35	%	
Heat Rate	10,681	BTU/KWH	10,523	BTU/KWH	
	<u>MWH</u>	<u>% of Possible</u>	<u>MWH</u>	<u>% of Possible</u>	
Full Scheduled	0	0.00	36,976	0.57	3
Partial Scheduled	13,288	2.49	134,454	2.06	4
Full Forced	0	0.00	32,908	0.51	5
Partial Forced	0	0.00	47,784	0.73	6
Economic Dispatch	136,088	25.47	1,755,357	26.95	7
Possible MWH	534,240		6,513,336		8

* See 'Notes for Fossil Units' filed with the January 2008 report.

** Gross of Power Agency

	Month of June 2008		Twelve Month Summary		See Notes*
MDC	671	MW	655	MW	1
Period Hours	720	HOURS	8,784	HOURS	
Net Generation	386,123	MWH	5,011,720	MWH	2
Capacity Factor	79.92	%	87.11	%	
Equivalent Availability	92.03	%	94.62	%	
Output Factor	86.85	%	91.82	%	
Heat Rate	9,295	BTU/KWH	9,095	BTU/KWH	
	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	161,230	2.80	3
Partial Scheduled	0	0.00	18,301	0.32	4
Full Forced	38,526	7.97	117,008	2.03	5
Partial Forced	0	0.00	13,477	0.23	6
Economic Dispatch	58,471	12.10	443,493	7.71	7
Possible MWH	483,120		5,753,520		8

* See 'Notes for Fossil Units' filed with the January 2008 report.

	Month of June 2008		Twelve Month Summary		See Notes*
MDC	705	MW	705	MW	1
Period Hours	720	HOURS	8,784	HOURS	
Net Generation	400,594	MWH	4,348,274	MWH	2
Capacity Factor	78.92	%	70.22	%	
Equivalent Availability	99.88	%	90.83	%	
Output Factor	78.92	%	74.74	%	
Heat Rate	11,385	BTU/KWH	11,137	BTU/KWH	
	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	373,333	6.03	3
Partial Scheduled	613	0.12	101,832	1.64	4
Full Forced	0	0.00	1,645	0.03	5
Partial Forced	0	0.00	90,887	1.47	6
Economic Dispatch	106,393	20.96	1,276,749	20.62	7
Possible MWH	507,600		6,192,720		8

* See 'Notes for Fossil Units' filed with the January 2008 report.

	Month of June 2008		Twelve Month Summary		See Notes*
MDC	698	MW	698	MW	1
Period Hours	720	HOURS	8,784	HOURS	
Net Generation	399,731	MWH	3,774,257	MWH	2
Capacity Factor	79.54	%	61.56	%	
Equivalent Availability	98.31	%	83.43	%	
Output Factor	79.54	%	71.88	%	
Heat Rate	10,426	BTU/KWH	10,560	BTU/KWH	
	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	795,719	12.98	3
Partial Scheduled	7,817	1.56	136,920	2.23	4
Full Forced	0	0.00	21,813	0.36	5
Partial Forced	700	0.14	61,538	1.00	6
Economic Dispatch	94,312	18.77	1,338,713	21.83	7
Possible MWH	502,560		6,131,232		8

* See 'Notes for Fossil Units' filed with the January 2008 report.

** Gross of Power Agency

Plant	Unit	Current MW Rating	January 2007 - December 2007	June 2008	January 2008 - June 2008
Asheville	1	191	63.64	77.76	79.34
Asheville	2	185	73.17	74.13	65.12
Cape Fear	5	144	78.67	78.52	71.78
Cape Fear	6	172	72.38	68.97	59.18
Lee	1	74	62.15	73.25	65.51
Lee	2	77	62.47	69.22	50.25
Lee	3	248	66.38	69.54	34.13
Mayo	1	742	72.10	72.04	62.44
Robinson	1	176	74.63	59.05	61.92
Roxboro	1	369	78.01	82.36	81.62
Roxboro	2	671	80.06	79.92	82.83
Roxboro	3	705	74.37	78.92	64.20
Roxboro	4	698	62.40	79.54	69.69
Sutton	1	93	56.26	63.56	51.05
Sutton	2	102	63.19	70.87	62.18
Sutton	3	403	55.53	61.51	63.29
Weatherspoon	1	48	53.86	49.01	46.11
Weatherspoon	2	49	55.68	61.03	46.86
Weatherspoon	3	76	68.70	68.46	63.92
Fossil System Total		5,223	69.82	74.14	66.57
Brunswick	1	938	95.92	101.62	74.43
Brunswick	2	937	86.99	98.19	98.79
Harris	1	900	93.90	100.05	102.02
Robinson Nuclear	2	710	92.26	102.66	105.32
Nuclear System Total		3,485	92.25	100.50	94.39
Total System		8,708	78.79	84.69	77.70

Amended SC Fuel Rule
Related to Nuclear Operations

There shall be a rebuttable presumption that an electrical utility made every reasonable effort to minimize cost associated with the operation of its nuclear generation system if the utility achieved a net capacity factor of $\geq 92.5\%$ during the 12 month period under review. For the test period April 1, 2008 through June 30, 2008, actual period to date performance is summarized below:

Period to Date: April 1, 2008 to June 30, 2008

Nuclear System Capacity Factor Calculation (Based on net generation)

A.. Nuclear system actual generation for SCPSC test period	A = 7,043,831 MWH
B. Total number of hours during SCPSC test period	B = 2,184 hours
C. Nuclear system MDC during SCPSC test period (see page 2)	C = 3,485 MW
D. Reasonable nuclear system reductions (see page 2)	D = 687,128 MWH
A. SC Fuel Case nuclear system capacity factor: $[(A + D) / (B + C)] * 100 = 101.6\%$	

NOTE:

If Line Item E $> 92.5\%$, presumption of utility's minimum cost of operation.
If Line Item E $< 92.5\%$, utility has burden of proof of reasonable operations.

Amended SC Fuel Rule
Nuclear System Capacity Factor Calculation
Reasonable Nuclear System Reductions
Period to Date: April 1, 2008 to June 30, 2008

Nuclear Unit Name and Designation	BNP Unit # 1	BNP Unit # 2	HNP Unit # 1	RNP Unit # 2	Nuclear System
Unit MDC	938 MW	937 MW	900 MW	710 MW	3,485 MW
Reasonable refueling outage time (MWH)	644,015	0	0	0	
Reasonable maintenance, repair, and equipment replacement outage time (MWH)	117	758	0	0	
Reasonable coast down power reductions (MWH)	0	0	0	0	
Reasonable power ascension power reductions (MWH)	30,893	0	0	0	
Prudent NRC required testing outages (MWH)	0	11,345	0	0	
SCPSC identified outages not directly under utility control (MWH)	0	0	0	0	
Acts of Nature reductions (MWH)	0	0	0	0	
Reasonable nuclear reduction due to low system load (MWH)	0	0	0	0	
Unit total excluded MWH	675,025	12,103	0	0	
Total reasonable outage time exclusions [carry to Page 1, Line D]					687,128